

Algeria: Air Force Modernization

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An Intelligence Assessment

Top Secret

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Directorate of Intelligence

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An Intelligence Assessment

This paper was prepared by Office of Near Eastern and South Asian Analysis, and It was coordinated with the Directorate of Operations.

Comments and queries are welcome and may be directed to the Chief, Arab-Israeli Division, NESA,

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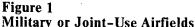
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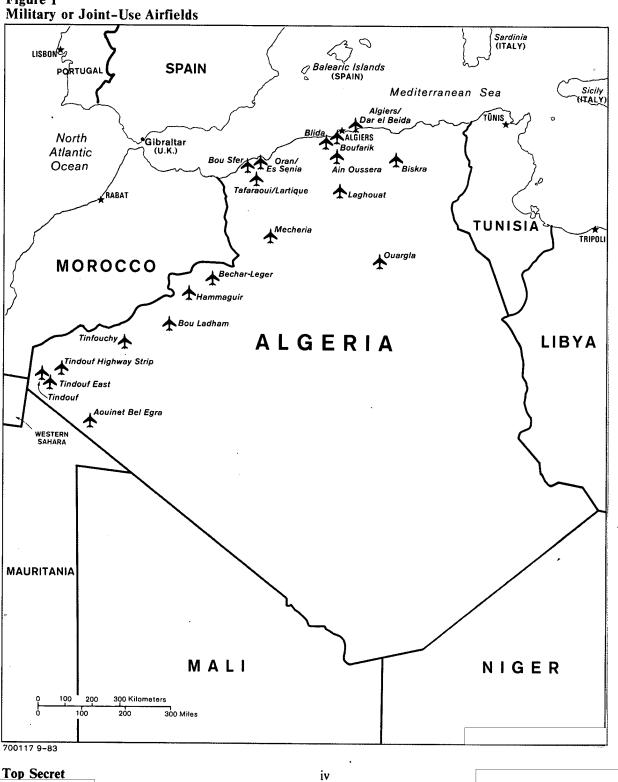
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	Algeria: Air Force Modernization			25 X 1
Key Judgments Information available as	An Air Force modernization pro years ago as part of a general fo	-		
of 1 August 1983 was used in this report.	Algeria to maintain a lead over	its chief regional r	ival, Morocco.	25X1
	 The Algerians have procured ad transport squadrons. As they ace and new basic trainers over the will comprise equipment acquire Although the Algerians generating aircraft acquisition, they sting over Morocco. The quantitative advantages a manpower and by maintenanc Moroccan and Algerian pilots overall skills, although the Moconflict has better prepared the 	quire additional reposes two years, more dafter 1975: ally have emphasized maintain a 3 to re offset somewhate problems. are probably about roccans' experience	placement helicopters est of the force probably ed quality over quantity 1 numerical advantage by shortages of trained t evenly matched in e in the Western Sahara	/ I
	The Soviet Union has figured preequipment efforts, and Soviet today as they have since the ear more interested in seeking non-Sing competitive edge in arms sal diminished. By diversifying, Algleverage and to get the best qua	aircraft predomina ly 1960s. Algiers, oviet armaments a es, primarily attrib eria hopes gradual	tte in the Air Force however, has become s the Soviets' longstand outable to financing, has lly to reduce Soviet	
	• The new resolve has resulted i and an interest in further mili This promises to open new cha	tary purchases from	m the United States.	
	• The Soviet Union is too firmly aircraft, however, for any swe well into the 1990s, unless the extremely high costs to reequi	eping change in pr Algerian Governn	ocurement policy until	25 X 1
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Air Force Modernization		25 X 1
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Algeria accelerated modernization of its Air Force in the mid-1970s, primarily because it feared that the dispute between Morocco and Algerian-backed Polisario Front guerrillas over Western Sahara might	After the October 1973 Arab-Israeli war, the Algerians recognized the need for urgent force improvements but found the Soviets the only supplier offering quick delivery and easy financing. With some reluc-	
escalate into a regional conflict, according to US	tance, Algeria concluded a new series of contracts	05)/4
Embassy reports. The Algerians also were worried that Morocco's own force improvement program, an-	with the Soviets between 1975 and 1980, The agreements, which provided ma-	25X1 25X1
nounced in 1974, could give a qualitative edge to their chief rival. In addition, Algerian President Boumediene probably viewed the military buildup under way	teriel for all services, yielded two new types of fighter aircraft for the Air Force—MIG-23s and MIG-25s. Algeria also received more advanced models of	23/1
in Libya as a potential threat to Algeria's position as	MIG-21 fighters already in the inventory and was the	
the strongest military power in northwest Africa. Finally, Algeria's participation in the Arab-Israeli	first country outside the Warsaw Pact to receive MI- 24 attack helicopters.	25X1
war of October 1973, when it sent three squadrons of combat aircraft to Egypt, reinforced assessments by	Certain features of the often difficult arms negotia-	25X1
military planners that modernization programs were	tions with Moscow made Soviet arms packages less	
long overdue because of the display of technologically superior weaponry.	attractive to Algeria than they had once been.	25X1
superior weaponity.		25 X 1
Despite the Air Force's secondary position to the Army—especially in a country where the Army has such a prominent role in the government—the Air		
Force has managed to achieve most of its main	To the Algerians, the toughened	25 X 1
procurement goals since 1975. The Air Force, under the command of Col. Hamid Abdelli, a modern and	credit terms—necessitated by Moscow's increased	20/(1
imaginative leader, is now striving to correct weak-	need for hard currency—significantly diminished the	
nesses in its performance. In this quest it has become	Soviets' competitiveness with the West.	25X1
increasingly willing and able to use non-Soviet re-	The Algerians were also peeved that the USSR,	
sources, including manpower and technology.	despite its stiffer terms, still attempted to use its	25 X 1
Sources of Assistance	preeminent position as an arms supplier to gain	1
Soviet Sales. In the early 1960s the Algerians turned	special privileges.	25X1
to the Soviets as their primary source of military equipment and training, largely because they were		25 X 1
unable to find other suppliers willing to match low		
Soviet prices and generous repayment terms.		25 X 1
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toward the end of the decade they began		25X1
to look for other sources of supply. They had little luck, apart from a deal with France in 1969 for Fouga		20/1
Magister trainers.		25 X 1
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on-Soviet Purchases. Acquisitions of non-Soviet air-	was again stimulated, and they paid \$3.5 million in		
ft for the Air Force, meanwhile, had been at atively low levels, with the exception of the acquisi-	1978 for six US T-34C trainers while adding more		25 X 1
n of the French Magister trainers. During the late 70s the Algerians' interest in Western purchases	·		20/(1
mgoriano interest in western purchases			
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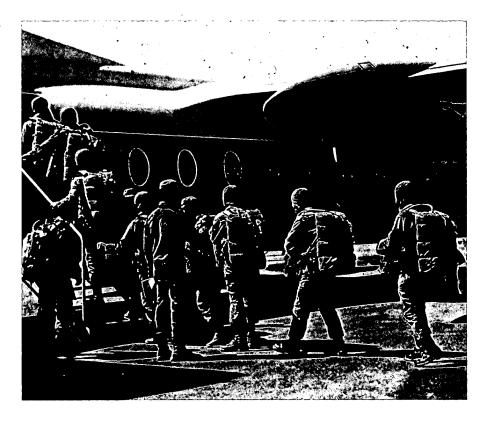
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Figure 3. Algerian F-27 transport.



Algeria has since become even more determined to move away from Soviet-made armaments,

The vivid memory of the Egyptian military's travails after President Sadat expelled the Soviets serves as a reminder that Moscow could hurt the Algerians by cutting off shipments of spare parts and curbing maintenance support.

According to US Embassy sources, since 1980 Algeria has indicated that it has come to view the United States as a feasible alternative source of aircraft, although by no means a substitute for the Soviets. The Algerians recognize that they have little chance of

receiving approval to buy US fighters and fighter-bombers or attack helicopters and have tailored their arms requests accordingly. In December 1980 Algeria spent \$3 million for two US Super King 200T maritime reconnaissance aircraft, which were fitted in France with specialized surveillance gear at a cost of \$14 million.\(^1\)

In 1981 and 1982 Algeria signed contracts for a total of 14 C-130s, including four stretch models, worth some \$214 million. According to the US defense attache, the Air Force intended to start negotiations in August 1983 for three more C-130s. According to the US Embassy in Algiers, the Algerian Ministry of Defense also concluded a \$51 million contract with Gulfstream in 1982 for three G-III executive jets for the presidential fleet, with deliveries slated to begin in mid-1983.

¹ According to the US defense attache in Algiers, these Air Force aircraft will eventually be transferred to the Algerian Navy.

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Algerian defense delegations have looked at the product lines of several other non-Soviet aircraft producers. They have focused on trainers and heliconters.	• Algeria has hired Pakistani advisers to meet two priority objectives: to secure English speakers—	0574
ers. They have focused on trainers and helicopters because those are the categories that the Air Force believes are most in need of renovation:	Algeria has decided all air training will be in that language—and to provide exposure to more innovative tactics.	25X1
• The Algerians are still mulling over which helicopters they want. In 1981 the Algerians talked with Italy about the purchase of 20 Agusta Bell 206 and		25X1
10 A-109 helicopters, according to an informant of the US Embassy in Algiers.	• The Algerians have also sought help to upgrade Soviet weapons. According to the US Embassy in	25 X 1
	Algiers, the Algerians hinted in 1982 that they wanted US help to modify Soviet-supplied air-to-air missiles to improve range and accuracy.	25X1 25X1
• The Algerians evidently favor the British-made	missies to improve range and accuracy.	25 X 1 25 X 1
Hawk trainer, even though it reportedly is more expensive than other competitors.	Force Modernization The Air Force's procurement policy has emphasized	25X1
Other trainers that have been in the running include	improving the quality of equipment in service, rather than buying large quantities as the Libyans are doing. Colonel Belloucif, secretary general of the Ministry of	25X1
French Alpha Jets, Czechoslovak L-39s, Italian MB-339s and SF-260s, and Chinese MIG-17s.	Defense, effectively summarized the Algerians' approach when he likened the Algerian armed forces to	25X1
MD-3375 and S1-2005, and Chinese 14110-175.	a swarm of bees as opposed to a bunch of flies: Algiers wanted a small potent force rather than a large ineffective one.	25X1 25X1
The Algerian Air Force has increasingly looked to Western and Third World countries for a variety of endeavors:	New arms deals have enabled the Air Force to make sweeping improvements in the inventory during the past eight years:	20,
• It has become more interested in general training, in contrast to the earlier practice of sending crews to	• Fighter-bombers. Successors to 1950s-vintage SU-7	²⁵ X1
train specifically on newly purchased items.	Fitters and MIG-17 Frescos in ground attack units—MIG-23 Flogger F and H models—offer	25X1
	much improved capabilities in payload, range, and avionics. The Fresco, for instance, could deliver 500 kilograms of bombs to a target 70 nautical miles distant on a ground attack mission, whereas the Flogger F can carry 1,800 kilograms of bombs a distance of 180 nautical miles on the same mission profile.	-
	• Fighters. Algeria has gradually phased out the early 1960s model MIG-21 Fishbed D interceptors in favor of the more versatile Fishbed L/N, the MIG-23 Flogger B, and the MIG-25 Foxbat A aircraft. Introduction of the late model MIG-21s into the	

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inventory has enhanced the service's capabilities for lower altitude maneuvers and generally improved overall combat effectiveness because of a better air intercept radar, new air-to-air missiles, a more powerful engine, and the addition of internal cannon. The Floggers have an all-weather air intercept

capability and longer combat radius. Addition of the Foxbat permits the Air Force to extend high-altitude air defense coverage and patrol ranges.

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• Helicopters. Reports of procurement plans suggest that Algeria will not seek replacement for its MI-6 Hook heavy-lift helicopters, probably because its requirements are better satisfied through new fixed-wing transport. MI-8 Hip helicopters have largely replaced the MI-4 Hound medium transport helicopters, which had significantly smaller cargo and

troop capacities. In addition, the Air Force obtained attack helicopters for the first time in 1978. The heavily armed MI-24 Hinds, which can carry guns, rockets, antitank guided missiles, and bombs, have increased the Algerians' antiarmor capabilities.

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• Trainers. The Soviet YAK-18 Max was the Air Force's primary trainer and the French Fouga Magister its basic trainer aircraft in 1975. The combat-capable Magisters still await replacement,

but US-built Beechcraft aircraft—T-34C Mentors and Musketeers—now are flown by pilot cadets instead of the Soviet Max.

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Transports. A few Soviet AN-12 Cubs that entered service in Algeria in the late 1960s remain in the inventory, but the Air Force plans to retire them soon, replacing them with US-made C-130s. Algerians in the air transport wing have said they were particularly unhappy with the Soviet transport's	support for those aircraft. According to a US observer, most of the AN-12s are well worn, with nearly 2,000 flight hours, and the aircraft would have to be rebuilt if they were to remain in active status.
maintenance record and the USSR's operational	
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Algerian Airbases. At the same time that Algiers was upgrading the quality of Air Force inventories, it embarked on an extensive base construction and improvement program. In the initial phases, the Air Force concentrated on building and modernizing bases along Algeria's western frontier to enhance operational flexibility in the event of a flareup in the war in Western Sahara:

• In the strategically important Tindouf area—closest to Western Sahara and the home base of units that would be the first committed in a conflict with Morocco—the Algerians have built three new dispersal airfields since 1975.

• The Tindouf installations are backed up by three airfields along the road to Bechar that also have been improved since 1975.

Most of the 12 bases where aircraft are stationed have undergone some type of improvement in the past eight

years.

In January 1983 Algeria signed a contract with Lockheed for the first phase of a two-part plan for the renovation of the base at Boufarik. According to the US Embassy in Algiers, the initial work by the US corporation, at a cost of \$15 million, is to include establishing a maintenance organization on base, designing 18 new buildings, and making models of the proposed improvements. The contract for phase two, the actual construction, is estimated to be worth about \$350 million, although Algerian contractors probably

will be hired for some of the work. Planned improvements call for tripled fuel storage capacity, two new large hangars, a lengthened main runway, and an increased electrical power supply.

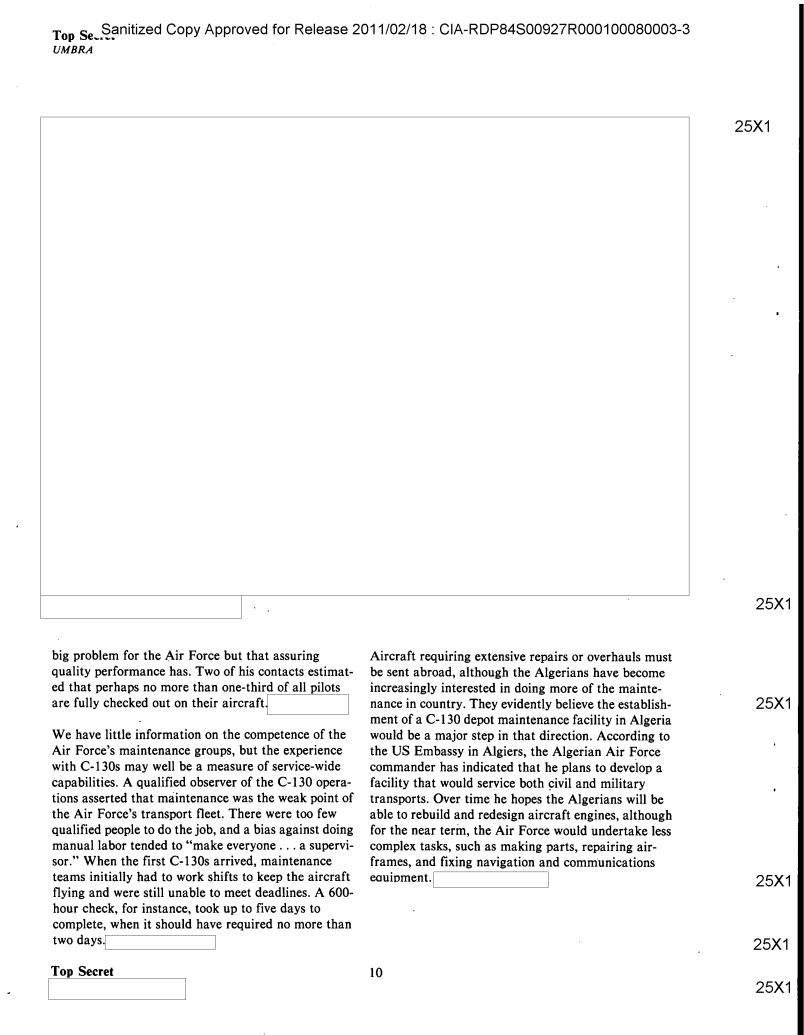
Operation of the Force

According to the US defense attache in Algiers, the Air Force lacks enough pilots to fly all the new aircraft. He reported that the Air Force could field only seven fully trained C-130 crews in March 1983. Training of other crews was delayed because F-27 transport pilots who were to take over the C-130s could not begin the course until their replacements, AN-12 crews, were released from flying the soon-to-be-retired Soviet transports.

As further evidence, the defense attache stated that he was told by a reliable reporter that pilot recruitment programs have not yielded sufficient personnel. The attache's source surmised that the Air Force has had to lower its personnel standards in order to compensate, and that the ratio in 1970 of 1 in 10 cadets being selected for fighter pilot training has been reduced. Other sources of the attache have conjectured that getting enough people has not been a

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Assessment of Strengthened Airpower air attack. The fact that ground-based air	
Algerian defense planners evidently believe that the ombination of an upgraded early warning radar Algiers, reflects this confidence.	
network, aircraft deployments within easy reach of the Moroccan border, and a more modern interceptor	
orce are sufficient to contain a potential Moroccan	s, including

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In our judgment, however, the Algerian and Moroccan services probably are not so different in their capabilities to employ their weaponry, particularly in aerial combat maneuvers. At the same time, the Moroccans probably have a slight edge in close air support and ground attack operations because of experience gained in the long war in Western Sahara. The Moroccans probably also are more adept at employing electronics countermeasures because of their experience in defending against Polisario surface-to-air missile units.

The modernization program has increased Algeria's options for using the Air Force for foreign missions, although Algiers has made clear that it considers this a secondary asset. Algeria was the only Arab country to send an expeditionary force—a small air contingent—to aid Egypt during the Arab-Israeli war of 1967. It again sent combat aircraft in 1973, but US Embassy reports suggest that the Algerians generally view such actions as limited to extreme situations.

Unlike Morocco, which has deployed forces to African and Persian Gulf countries for political and economic reasons, and the Libyans, who use airpower more liberally, the Algerians are generally reluctant to open themselves to charges of neocolonialism or meddling, particularly when there is a risk of involving great powers. The only recent instance of such activity occurred in early 1982 when Algerian C-130s transported arms and equipment to Chad to support then President Goukouni. Algiers justified this action as support for a legitimate government

If the Algerians wanted to project military power beyond their borders, the reequipped Algerian Air Force would be a key component. Elements of the Army's parachute brigade, for instance, could be ferried by C-130s to designated trouble spots. In the event that an Algerian expeditionary force became involved in another Arab-Israeli war, the C-130s would probably be pressed into service to transport men and materiel. Algiers could also provide a few squadrons of fighter aircraft to reinforce an ally's defenses.

Prospects

There are shortcomings in the Air Force's capabilities that are unlikely to be eliminated soon. Poor maintenance practices probably will persist because of the shortage of skilled technicians and, to some extent, disdain for mechanical chores. As a consequence, combat readiness is likely to continue to suffer, and the Algerians will remain reliant on foreign technicians. None of the Air Force's deficiencies, however, is serious enough to detract significantly from Algeria's overall military lead over Morocco.

The Air Force is unlikely to make wholesale changes in its inventory in the next few years. All signs indicate that the only big purchases will be new Western trainers and helicopters, although Algiers may delay making the final choices, if past practice holds true. Outdated aircraft—older MIG-21s, the MIG-17s, AN-12s, and Fouga Magisters—will gradually be retired, and within a couple of years the bulk of the aircraft in service probably will be 1975 or later vintage.

Regardless of wishes to be more independent of its Soviet supplier, the Algerian Air Force is essentially committed to being predominantly Soviet armed for the next decade, unless Algiers is willing to incur substantial financial costs to reequip. The Algerians may complain about their Soviet hardware—

but the Air Force is unquestionably more powerful than it was a decade ago, and the improvements cost less money than if Algiers had bought Western equipment.

Algeria may well buy more Soviet aircraft in the next few years. Moscow, evidently sensitive to critical comments by clients about its longstanding practice of exporting less sophisticated models, has become more willing in recent years to release versions identical to those in use in Warsaw Pact countries. We believe the 25X1

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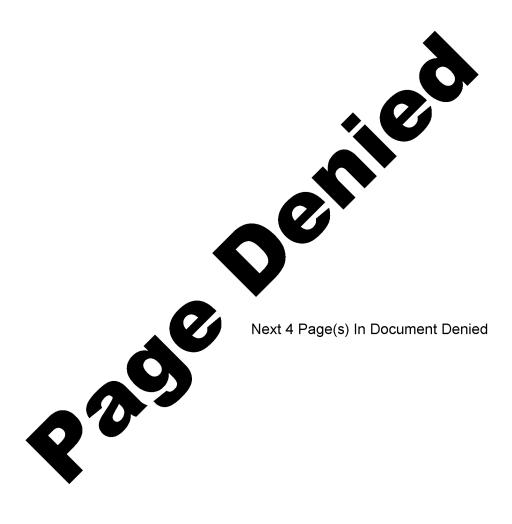
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threat of losing sales to Western manufacturers could prompt the Soviets to be more accommodating to the highly valued Algerians because Algiers can pay hard currency for its purchases.

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Algiers' desire for higher quality products, meanwhile, probably will work to the benefit of US-Algerian relations. The Algerians were heartened by the sale of C-130s to Algiers at a time when Morocco was receiving approval to buy another 108 US-made M-48 medium tanks. US Embassy reports suggest that for the Algerians, this was evidence that the United States was attempting to be more evenhanded, although they also recognized the special nature of US-Moroccan ties. Algeria evidently has been pleased with the US equipment and support it has received, and it appears likely to continue seeking American aviation assistance





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